

DPN 533

M A T E R I A L   S A F E T Y   D A T A   S H E E T   P A G E :   1  
DOW CHEMICAL U.S.A. MIDLAND MICHIGAN 48640 EMERGENCY PHONE: 517-636-4400

EFFECTIVE DATE: 27 JAN 82

PRODUCT CODE: 55596

PRODUCT NAME: METHYLENE CHLORIDE, VAPOR DEGREASING GRADE

MSD: 0578

INGREDIENTS (TYPICAL VALUES-NOT SPECIFICATIONS)

: % :

METHYLENE CHLORIDE, ESSENTIALLY

: 100 :

SECTION 1

PHYSICAL DATA

BOILING POINT: 104F (39.8C) : SOL. IN WATER: 2.0 G/100G @ 25C  
VAP PRESS: 340 MMHG @ 20C : SP. GRAVITY: 1.320 @ 25/25C  
VAP DENSITY (AIR=1): 2.93 : % VOLATILE BY VOL: 100 (ESSENTIALLY)  
APPEARANCE AND ORDER: COLORLESS LIQUID

SECTION 2

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE : FLAMMABLE LIMITS (STP IN AIR)  
METHOD USED: T.O.C. T.C.C. C.O.C. : LFL: 14.8% (25C) UFL: 25% (50C)  
EXTINGUISHING MEDIA: WATER FOG.  
SPECIAL FIRE FIGHTING EQUIPMENT AND HAZARDS: PRESSURE DEMAND SELF-  
CONTAINED RESPIRATORY EQUIPMENT.

SECTION 3

REACTIVITY DATA

STABILITY: ----  
INCOMBATIBILITY: POSSIBLY MAGNESIUM, POTASSIUM, SODIUM.  
HAZARDOUS DECOMPOSITION PRODUCTS: OPEN FLAMES AND WELDING ARCS CAN  
CAUSE THERMAL DEGRADATION WITH THE EVOLUTION OF HYDROGEN CHLORIDE  
AND VERY SMALL AMOUNTS OF PHOSGENE AND CHLORINE.  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 4

SPILL, LEAK, AND DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS (USE APPROPRIATE SAFETY EQUIPMENT): SMALL SPILLS:  
MOP UP, WIPE OR SOAK UP IMMEDIATELY. REMOVE TO OUT OF DOORS.  
LARGE SPILLS: EVACUATE AREA. CONTAIN LIQUID; TRANSFER  
TO CLOSED METAL CONTAINERS. KEEP OUT OF WATER SUPPLY.  
DISPOSAL METHOD: (IN ORDER OF PREFERENCE) SEND SOLVENT TO LICENSED RECLAIMER,  
INCINERATION, EVAPORATION OF VERY SMALL QUANTITIES, OR APPROVED  
LANDFILL BURIAL IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.  
DUMPING INTO SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER IS STRONGLY

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MATERIAL SAFETY DATA SHEET PAGE: 2  
DOW CHEMICAL U.S.A. MIDLAND MICHIGAN 48640 EMERGENCY PHONE: 517-636-4400

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PRODUCT (CONT'D): METHYLENE CHLORIDE, VAPOR DEGREASING GRADE MSD: 0578

SECTION 4      SPILL, LEAK, AND DISPOSAL PROCEDURES (CONTINUED)  
DISPOSAL METHOD: (CONTINUED)  
DISCOURAGED, AND MAY BE ILLEGAL.

## SECTION 5 HEALTH HAZARD DATA

INGESTION: LOW SINGLE DOSE ORAL TOXICITY. LD50 MALE RATS 1530 MG/KG.  
EYE CONTACT: CAUSES PAIN AND MODERATE IRRITATION, AND POSSIBLE TRANSIENT CORNEAL INJURY.  
SKIN CONTACT: SHORT CONTACT - NO IRRITATION. PROLONGED OR FREQUENTLY REPEATED CONTACT - MODERATE IRRITATION. IF CONFINED TO SKIN - MAY CAUSE A BURN.  
SKIN ABSORPTION: IS ABSORBED, BUT IS LOW IN TOXICITY BY THIS ROUTE.  
INHALATION: OSHA STANDARD 500 PPM. ACGIH TLV 100 PPM.  
EFFECTS OF OVEREXPOSURE: CARBOXYHEMOGLOBIN LEVELS MAY BE ELEVATED. INCREASING SIGNS OF ANESTHESIA ABOVE 900 PPM IN THE ATMOSPHERE. CAN CAUSE DEATH IF TOO MUCH IS BREATHED.

SECTION 6 FIRST AID--NOTE TO PHYSICIAN

FIRST AID PROCEDURES:

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. REFER TO MEDICAL PERSONNEL.

SKIN: WASH OFF IN FLOWING WATER. DECONTAMINATE CLOTHING AND ACCESSORIES BEFORE REUSE. GOOD PERSONAL HYGIENE.

INHALATION: FAIREMOVE TO FRESH AIR IF EFFECTS OCCUR. IF RESPIRATION STOPS, GIVE MOUTH-TO-MOUTH RESUSCITATION. CALL PHYSICIAN AND/OR TRANSPORT TO MEDICAL FACILITY.

INGESTION: DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR TRANSPORT TO EMERGENCY FACILITY.

NOTE TO PHYSICIAN:

EYES: MAY CAUSE IRRITATION. STAIN FOR EVIDENCE OF CORNEAL INJURY. IF CORNEA IS BURNED, INSTILL ANTIBIOTIC STEROID PREPARATION FREQUENTLY. CONSULT OPHTHALMOLOGIST.

SKIN: MAY CAUSE IRRITATION. CHRONIC EXPOSURE MAY CAUSE DEFATTING TYPE OF DERMATITIS. IF RASH IS PRESENT, TREAT AS ANY CONTACT DERMATITIS.

RESPIRATORY: ANESTHETIC OR NARCOTIC EFFECT MAY OCCUR. ADMINISTER OXYGEN IF AVAILABLE.

ORAL: MAY CAUSE CHEMICAL PNEUMONIA IF ASPIRATED INTO LUNGS. DANGER OF CHEMICAL PNEUMONIA MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGOSCOPIC CONTROL.

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